######################################	000000000 0000000000 0000000000 000 000 000 000	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		LLL LLL LLL LLL LLL LLL LLL LLL
FFF	00000000	RRR RRR	RRR RRR	††† †††	
FFF	00000000	RRR RRR	RRR RRR	TTT	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	000000 000000 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	NN	000000 00 00 00 00	MM MMMM MMMM MM MM MM MM MM MM MM MM MM
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FOR 1-0

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FORSENCODE_MO - entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 VAX/VMS Macro V04-00 Page 0

(2) 56 HISTORY ; Detailed Current Edit History
(3) 85 DECLARATIONS FORSENCODE_MO - ENCODE OBJECT-FORMATTED

FOR

FORSENCODE_MO - entry point for FORTRAN ENCODE OBJECT-FORMATTED /1-011/ File: FORENCOMO.MAR Edit: JAW1011

FOR 1-0

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FACILITY: FORTRAN Support Library - user callable

ABSTRACT:

This module contains the entry point for the FORTRAN ENCODE OBJECT-FORMATTED I/O statement. It is simply a call to FOR\$\$IO_BEG with bits in RO which describe the parameter list. FOR\$\$IO_BEG interprets the parameters.

MAINTENANCE NOTE:

The transfer vector (RTLVECTOR+ALLGBL) must have the following:

.TRANSFER FORSENCODE_MO FORSSIO BEG FORSENCODE_MO+2 . MASK BRW

This puts the correct mask in entry vector, that is FOR\$\$10_BEG entry mask. Furthermore this module must only use RO and R1 since any other register might not be in the entry mask for FOR\$\$10_BEG.

ENVIRONMENT: User access mode; mixture of AST level or not

AUTHOR: Richard B. Grove, CREATION DATE: 28-May-78

MODIFIED BY: T. Hastings, 29-July-78

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NONE

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- entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 VAX/VMS Macro VO4-00 DECLARATIONS 6-SEP-1984 10:55:04 [FORTL.SRC]FORENCOMO.MAR;1
       .SBTTL DECLARATIONS
                          INCLUDE FILES:
                                   SFORPAR
                                                                                 : Define inter-module FORTRAN symbols : Define statement type symbols
                                   SISBDEF
                         EXTERNAL SYMBOLS:
                                   .DSABL GBL
.EXTRN FOR$$10_BEG
                                                                                 : Declare all external symbols
                                                                                 ; common 1/0 statement processing
                      The following references are to make sure the necessary UDF and REC modules are loaded. These are the routines which are called through the dispatch tables in FOR$$DISPAT.
                 100
                 101
       104 :-
                                   .EXTRN FORSSUDF_WFO, FORSSUDF_WF1, FORSSUDF_WF9
.EXTRN FORSSREC_WMF0, FORSSREC_WMF1, FORSSREC_WMF9
                 106
                  107
                       The following reference makes sure the format compiler is loaded.
                 108
                 109
                 110
                                   .EXTRN FORSSFMT_COMPIL
                         MACROS:
                 114
                                  NONE
                          PSECT DECLARATIONS:
 00000000
                                   .PSECT _FOR$CODE PIC,USR,CON,REL,LCL,SHR,EXE,RD,NOWRT,LONG
       0000
0000
0000
0000
0000
0000
0000
                 122
123
124
125
126
127
128
129
130
                         EQUATED SYMBOLS:
                          OWN STORAGE:
```

```
FORSENCODE_MO
```

```
- entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 VAX/VMS Macro VO4-00 FORSENCODE_MO - ENCODE OBJECT-FORMATTED 6-SEP-1984 10:55:04 [FORRTL.SRC]FORENCOMO.MAR;1
                                                            .SBTTL FORSENCODE_MO - ENCODE OBJECT-FORMATTED
                             0000
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                                              FUNCTIONAL DESCRIPTION:
                                                           Initialize the FORTRAN I/O system to perform a ENCODE OBJECT-FORMATTED I/O statement.
                                                  CALLING SEQUENCE:
                                                           CALL FORSENCODE_MO (char_cnt.rlu.v. format_adr.rt.r. usr_buf_adr.wt.ra [, err_adr.j.r [, end_adr.j.r]])
                                                  INPUT PARAMETERS:
                                                                                                  logical unit number
format string (needs compilation)
adr. of user's buffer
optional ERR= address
optional END= address
                                                            unit.rl.v
                                                           format_adr.rt.r
usr_buf_adr.wt.ra
[err_adr.j.r]
[end_adr.j.r]
                                                  IMPLICIT INPUTS:
                                                           NONE except those used by FOR$$10_BEG.
                                                  OUTPUT PARAMETERS:
                                         160
                                                           NONE
                                                  IMPLICIT OUTPUTS:
                                                           NONE except those left by FOR$$10_BEG.
                                         165
                                        166
167
168
                                                  COMPLETION CODES:
                                                           NONE
                                        170
171
172
173
174
175
                                                  SIDE EFFECTS:
                                                           NONE except those of FOR$$10_BEG.
                                        176
177
178
179
                                              FORSENCODE MO:: .MASK FORSSIO BEG
MOVZWL WISBSK ST TY WMF+
<1@FORSV OBJ FMT>, RO
JMP G^FORSSIO_BEG+2
      010B 8F
                                                                                                               ; Statement type
00000002 GF
                      17
                                                                                                                : branch past call mask
                                        180
181
182
                                                            .END
```

```
- entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 6-SEP-1984 10:55:04
                                                                                                                                                                VAX/VMS Macro V04-00
[FORRTL.SRC]FORENCOMO.MAR; 1
FORSENCODE_MO
Symbol table
FORSSFMT_COMPIL
                                                                                 FORSSIO BEG
FORSSREC WMFO
FORSSREC WMF1
FORSSREC WMF9
FORSSUDF WFO
FORSSUDF WF1
FORSSUDF WF1
                                                        *******
                                                        *******
                                                        00000000
FORSENCODE_MO
FORSV_OBJ_FMT
ISBSK_ST_TY_WMF
                                                     = 0000000B
                                                                                    Psect synopsis
PSECT name
                                                      Allocation
                                                                                        PSECT No.
                                                                                                          Attributes
     ABS
                                                      00000000
                                                                                                                        USR
                                                                                                                                  CON
                                                                                                                                            ABS
                                                                                                                                                      LCL NOSHR NOEXE NORD
 FOR$CODE
                                                      00000000
                                                                                                              PIC
                                                                                                                        USR
                                                                                                                                  CON
                                                                                                                                                                SHR
                                                                                                                                                                          EXE
                                                                                                                                                                                           NOWRT NOVEC LONG
                                                                                                                                                                                    RD
                                                                               Performance indicators !
Phase
                                          Page faults
                                                                    CPU Time
                                                                                             Elapsed Time
                                                                    00:00:00.08
                                                      29
                                                                                             00:00:00.51
Initialization
                                                                   00:00:00.08

00:00:00.63

00:00:00.19

00:00:00.53

00:00:00.02

00:00:00.02

00:00:00.75
                                                                                             00:00:03.98
00:00:04.92
00:00:00.33
Command processing
                                                      128
Pass 1
Symbol table sort
                                                        56320
                                                                                             00:00:01.97
Pass 2
Symbol table output
Psect synopsis output
                                                                                             00:00:00.05
                                                                                             00:00:00.00
Cross-reference output
Assembler run totals
                                                                                             00:00:11.82
The working set limit was 1050 pages.
6710 bytes (14 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 188 non-local and 0 local symbols.
182 source lines were read in Pass 1, producing 8 object records in Pass 2.
9 pages of virtual memory were used to define 2 macros.
                                                                             Macro library statistics !
```

Macro Library name \$255\$DUA28:[FORRTL.OBJ]FORRTL.MLB:1 \$255\$DUA28:[SYSLIB]STARLET.MLB;2

Macros defined 202

183 GETS were required to define 2 macros.

TOTALS (all libraries)

There were no errors, warnings or information messages.

FORSENCODE_MO - entry point for FORTRAN ENCODE OBJECT- 15-SEP-1984 23:51:52 VAX/VMS Macro VO4-00 Page 6 VAX-11 MacFo Run Statistics 6-SEP-1984 10:55:04 [FORRIL.SRCJFORENCOMO.MAR;1 (4) MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:FORENCOMO/OBJ=OBJ\$:FORENCOMO MSRC\$:FORENCOMO/UPDATE=(ENH\$:FORENCOMO)+LI

0180 AH-BT13A-SE

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